

DAMAGE SURVEY REPORT (DSR)
Emergency Watershed Protection Program – Recovery

Section 1A

Date of Report: 02/18/06

DSR Number: 045-05-002 R

Project Number: Jefferson Canal

NRCS Entry Only

Eligible: YES ☒ NO ☐
Approved: YES ☒ NO ☐
Funding Priority Number (from Section 4) 300
Limited Resource Area: YES ☐ NO ☒

Section 1B Sponsor Information

Sponsor Name: Iberia Parish Government

Address: Courthouse Building, Suite 400, 300 Iberia St.

City/State/Zip: New Iberia, LA 70560-4587

Telephone Number: 337-365-8246 Fax: (337) 369-4470

Section 1C Site Location Information

County: Iberia Parish State: LA Congressional District: 03

Latitude: Start: 29.94493246 End: 29.93954541 Longitude: Start: -91.94240766 End: -91.94585430

Section: 3 Township: 13 S Range: 5E

UTM Coordinates: _____

Drainage Name: L-4-A - Jefferson Canal Reach: 2300'

Damage Description: Debris is blocking portions of the canal along Reach. Drainage is impeded. Debris consists mostly of marsh vegetation & Hay deposited by Hurricane Rita causing blockage and increased flooding to nearby homes and cropland.

Section 1D Site Evaluation

All answers in this Section must be YES in order to be eligible for EWP assistance.

Site Eligibility	YES	NO	Remarks
Damage was a result of a natural disaster?*	X		Hurricane Rita wind and storm damage
Recovery measures would be for runoff retardation or soil erosion prevention?*	X		Reduce upstream flooding, streambank erosion, and scour erosion
Threat to life and/or property?*	X		Reduce flooding upstream of channel blockage where homes and road are located
Event caused a sudden impairment in the watershed?*	X		Hurricane deposited debris in channel that will likely cause flooding after next major rainfall event
Imminent threat was created by this event?*	X		Flood damage to homes and Public roads likely after next major rainfall event.
For structural repairs, not repaired twice within ten years?*	X		No evidence of repairs to pipes culverts or roads in past several years
Site Defensibility			
Economic, environmental, and social documentation adequate to warrant action? (Go to pages 3, 4, 5 and 6 ***)	X		See attached documentation
Proposed action technically viable? (Go to Page 9 ***)	X		See attached documentation

Have all the appropriate steps been taken to ensure that all segments of the affected population have been informed of the EWP program and its possible effects? YES X NO ☐

Comments: Iberia Parish Government has been contacted about debris removal

* Statutory

** Regulation

*** DSR Pages 3 through 6 and 9 are required to support the decisions recorded on this summary page. If additional space is needed on this or any other page in this form, add appropriate pages. 1 of 14

Approved 7/2005

DSR NO: 045-05-002 R

Section 1E Proposed Action

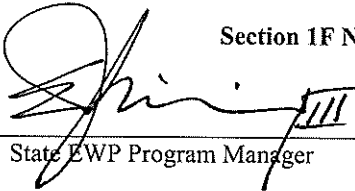
Describe the preferred alternative from Findings: Section 5 A:

Remove marsh vegetation, hay bales, downed trees and branches, and other debris from one side of channel by alternating from one side to the other where access is best. Debris will be burned and buried within the established 50 ft. right of way on both sides which is operated and maintained by Iberia Parish Government.

Total installation cost identified in this DSR: Section 3: \$24,400.00

Section 1F NRCS State Office Review and Approval

Reviewed By:


State EWP Program Manager

Date Reviewed:

2/28/06

Approved By:

State Conservationist

Date Approved:

PRIVACY ACT AND PUBLIC BURDEN STATEMENT

NOTE: The following statement is made in accordance with the Privacy Act of 1974, (5 U.S.C. 552a) and the Paperwork Reduction Act of 1995, as amended. The authority for requesting the following information is 7 CFR 624 (EWP) and Section 216 of the Flood Control Act of 1950, Public Law 81-516, 33 U.S.C. 701b-1; and Section 403 of the Agricultural Credit Act of 1978, Public Law 95-334, as amended by Section 382, of the Federal Agriculture Improvement and Reform Act of 1996, Public Law 104-127, 16 U.S.C. 2203. EWP, through local sponsors, provides emergency measures for runoff retardation and erosion control to areas where a sudden impairment of a watershed threatens life or property. The Secretary of Agriculture has delegated the administration of EWP to the Chief or NRCS on state, tribal and private lands.

Signing this form indicates the sponsor concurs and agrees to provide the regional cost-share to implement the EWP recovery measure(s) determined eligible by NRCS under the terms and conditions of the program authority. Failure to provide a signature will result in the applicant being unable to apply for or receive a grant the applicable program authorities. Once signed by the sponsor, this information may not be provided to other agencies, IRS, Department of Justice, or other State or Federal Law Enforcement agencies, and in response to a court or administrative tribunal.

The provisions of criminal and civil fraud statutes, including 18 U.S.C. 286, 287, 371, 641, 651, 1001; 15 U.S.C. 714m; and 31 U.S.C. 3729 may also be applicable to the information provided. According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0578-0030. The time required to complete this information collection is estimated to average 117/1.96 minutes/hours per response, including the time for reviewing instructions, searching existing data sources, field reviews, gathering, designing, and maintaining the data needed, and completing and reviewing the collection information.

USDA NONDISCRIMINATION STATEMENT

"The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, age, disability, and where applicable, sex, marital status, familial status, parental status, religion, sexual orientation, genetic information, political beliefs, reprisal, or because all or part of an individual's income is derived from any public assistance program. (Not all prohibited bases apply to all programs.)

Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at (202) 720-2600 (voice and TDD). To file a complaint of discrimination write USDA, Director of Civil Rights, 1400 Independence Avenue, SW, Washington, DC 20250-9410 or call (800)795-3272 (voice) or (202)720-6382 (TDD). USDA is an equal opportunity provider and employer.

Civil Rights Statement of Assurance

The program or activities conducted under this agreement will be in compliance with the nondiscrimination provisions contained in the Titles VI and VII of the Civil Rights Act of 1964, as amended; the Civil Rights Restoration Act of 1987 (Public Law 100-259); and other nondiscrimination statutes: namely, Section 504 of the Rehabilitation Act of 1973, Title IX of the Amendments of 1972, the Age Discrimination Act of 1975, and the Americans with Disabilities Act of 1990. They will also be in accordance with regulations of the Secretary of Agriculture (7 CFR 15, 15a, and 15b), which provide that no person in the United States shall on the grounds of race, color, national origin, gender, religion, age or disability, be excluded from participation in, be denied the benefits of, or otherwise subjected to discrimination under any program or activity receiving Federal financial assistance from the U.S. Department of Agriculture or any agency thereof.

DSR NO: 045-05-002 R
Section 2 Environmental Evaluation

2A Resource Concerns	2B Existing Condition	2C Alternatives and Effects		
		Proposed Action	No Action	Alternative
		Remove tree logs and debris from one side of channel by alternating from side to side. Burn/bury on existing R/W	Leave tree logs and debris in channel	Remove tree logs and debris from one side of channel and haul to landfill.
2D Effects of Alternatives				
Soil				
Bank Erosion	Stable except for exposed soil around uprooted trees on stream bank	Cause temporary increase in bank erosion from removal activities on access side of channel.	Erosion from root mass will stabilize, but flooding will cause more bank erosion and undercutting	Cause temporary increase in bank erosion from removal activities access side of channel.
Compaction	No compaction	Heavy equipment will moderately compact soil at access points	No compaction	Heavy equipment will moderately compact soil at access points on both sides.
Water				
Flooding	Property upstream of debris blockage is subject to damages from flooding after future heavy rainfall events	Upstream flooding will be reduced and damages to property will be minimized from heavy rainfall events	Property upstream of debris blockage will continue to be subject to damages from next heavy rainfall event	Upstream flooding will be reduced and damages to property will be minimized from heavy rainfall events
Inadequate outlets	Debris is blocking outlets	Outlets will be opened, capacities will be increased and flooding will be reduced	Debris will continue to accumulate and further reduce outlet capacities	Outlets will be opened, capacities will be increased and flooding will be reduced
Excessive Sediments and turbidity	Stream flow is minimal and no sediment problems will occur until next heavy rainfall event.	Disturbance from heavy equipment and removal of debris will cause short term increase in sed. and turbidity, but will reduce long term impacts.	Sediments and turbidity will increase as a result of stream bank erosion and scour damage following next heavy rainfall event.	Disturbance from heavy equipment and removal of debris will cause short term increase in sediment and turbidity, but will reduce long term impacts.
Stream health (including SVAP)	2.6 (Poor Conditions)	2.7 (Poor Conditions)	2.6 (Poor Conditions)	2.4 (Poor Conditions)
Air				
Particulate Matter less than PM 10	No particulate matter is being generated by debris in channel	Will cause temporary increase in particulate matter above PM 10 from smoke while burning debris and from disturbance.	No change in particulate matter	Will cause slight increase in particulate matter as result of disturbance, but will remain below 10mm
Plant				
Productivity, Health and Vigor of Riparian Vegetation	Riparian habitat is narrow band. Most has been replaced by access R?W and crop encroachment	Few standing trees on access side of channel may be removed for access and removal., but most of areas have already been cleared	No trees will be disturbed by removal.	Few standing trees on access side of channel will be removed for access and removal. But most areas are already cleared
Productivity, and Health of Aquatic Vegetation	Aquatic plants are limited because of turbidity.	Removal of debris will not impact aquatic vegetation.	Stream aquatic growth will remain poor with limited vegetation	Removal of debris will not impact aquatic vegetation.
Animal				
Aquatic habitat	Quality reduced by decomposing hay bales and lower DO	Quality increased as result of decomposing hay bales and higher DO	Quality reduced until impacts of decomposing hay bales end	Quality increased as result of decomposing hay bales and higher DO
Inadequate Cover/Shelter for Wildlife along Stream Corridor	Riparian forest buffer is narrow and providing minimal cover, because of maintenance of the drainage canal. and conversion of adjacent areas to crop production	There will be a slight reduction in cover along excavated side of channel where trees and understory are removed. Natural regeneration will restore cover.	Buffers will remain limited.	There will be a slight reduction in cover along both sides of channel where trees and understory are removed. Natural regeneration will restore cover.
Other				
Aesthetics	Aesthetics have been negatively impacted by debris accumulation, downed trees, and disturbance of riparian habitat.	The planned work will improve visual aspects by removing unsightly debris	The landscape will remain the same except for any changes that may be caused by flooding	The planned work will improve visual aspects by removing unsightly debris
Mosquito and Insect Vectors	Water in channel is deep water and provides minimal mosquito habitat except after flooding.	Mosquito habitat created by flooding will be reduced.	Mosquito habitat created by flooding will increase.	Mosquito habitat created by flooding will be reduced.

Section 2E Special Environmental Concerns

Resource Consideration	Existing Condition	Alternatives and Effects		
		Proposed Action	No Action	Alternative
Clean Water Act Waters of the U.S.	Poor Water Quality, Low DO, High BOD	Improved water quality. CWA 404 Permit required. Water Quality Certification possible.	Decreased water quality. Increased blockage and flooding	Improved water quality. CWA 404 Permit required. Water Quality Certification possible.
Coastal Zone Management Areas (CZMA)	Channel is in CZMA, but area has been previously drained and converted to crop production	CZ Use permit will be required, but impacts will be negligible	Will remain in drained and disturbed area of CZ	CZ Use permit will be required, but impacts will be negligible
Coral Reefs	N/A	N/A	N/A	N/A
Cultural Resources	Use FOTG guidance. State level review needed	Same as existing	Same as existing	Same as existing
Endangered and Threatened Species	Use FOTG guidance USFWS/LDWF list shows species in parish, but none are likely in project area	No impacts	No impacts	No impacts
Environmental Justice	Not a factor in this project area	Not a factor in this project area	Not a factor in this project area	Not a factor in this project area
Essential Fish Habitat	No essential fish habitat within this project area	No essential fish habitat within this project area	No essential fish habitat within this project area	No essential fish habitat within this project area
Fish and Wildlife Coordination	No stream modification proposed	Will coordinate if issues arise in CWA 404 permit application process	N/A	Will coordinate if issues arise in CWA 404 permit application process
Floodplain Management	Project boundary is within 100 year floodplain	Improve drainage and reduce level of flooding to pre hurricane conditions	N/A	If selected, project will improve drainage and reduce level of flooding to pre-storm conditions
Invasive Species	Chinese Tallow trees along channel in some segments	May remove some invasive trees at access locations and allow increased control opportunities	Will likely increase	Will remove some invasive trees at access locations and allow increased control opportunities
Migratory Birds	Provides minimal habitat for neotropical migrants	Slightly reduce habitat for neotropical migrants where trees are removed	Continue to provide same level of habitat	Slightly reduce habitat for neotropical migrants where trees are removed
Natural Areas	Use FOTG guidance. No natural areas identified in project area	Use FOTG guidance. No natural areas identified in project area	Use FOTG guidance. No natural areas identified in project area	Use FOTG guidance. No natural areas identified in project area
Prime and Unique Farmlands	Use FOTG guidance and soil survey. Mt soil occurs in project area, but not prime in urban area	Mt soil occurs in project area, but not prime when in urban area	Mt soil occurs in project area, but not prime when in urban area	Mt soil occurs in project area, but not prime when in urban area
Riparian Areas	Downed timber has further reduced and altered the already limited and disturbed riparian habitat	Minimal impacts to the limited and disturbed riparian areas are expected	Downed timber and altered riparian area will remain until natural process restores habitat	Minimal impacts to the limited and disturbed riparian areas are expected
Scenic Beauty	Use FOTG guidance. Downed timber/ debris and has reduced aesthetics of stream and riparian areas	Stream aesthetics will be improved by debris removal. Riparian habitat will not be noticeably impacted	Downed timber in stream and along riparian areas will continue to reduce aesthetics.	Stream aesthetics will be improved by debris removal. Riparian habitat will not be noticeably impacted
Wetlands	Wetland functions and values are minimal as result of drainage and conversion to cropland	Removal of debris will have minimal impact on already degraded wetland functions and values.	Wetland functions and values will remain altered.	Removal of debris will have minimal impact on already degraded wetland functions and values.
Wild and Scenic Rivers	Use FOTG guidance. No listed streams affected by project	No impact on listed streams or rivers	No impact on listed streams or rivers	No impact on listed streams or rivers

Completed By: Kris Davis, Biologist and Steve Tully, BiologistDate: 10/06/2005 and 02/26/06

DSR NO: 045-05-002 R

Section 2F Economic

This section must be completed by each alternative considered (attach additional sheets as necessary).

	Future Damages (\$)	Damage Factor (%)	Near Term Damage Reduction
Properties Protected (Private)			
87 residences (~5.78% of District 13)			
@ \$30,000 Each	\$2,610,000	0.25	\$652,500
Properties Protected (Public)			
Parish Road, Bridge, & Railroad trestles	\$150,000	0.25	\$37,500
Business Losses			
Other			
Total Near Term Damage Reduction \$			\$690,000
Net Benefit (Total Near Term Damage Reduction minus Cost from Section 3)			\$665,600

Completed By: DCS II, JDR, KD Date: 10/06/05

Section 2G Social Consideration

This section must be completed by each alternative considered (attach additional sheets as necessary).

	YES	NO	Remarks
Has there been a loss of life as a result of the watershed impairment?		X	
Is there the potential for loss of life due to damages from the watershed impairment?		X	
Has access to a hospital or medical facility been impaired by watershed impairment?		X	If another event occurs, severe flooding is inevitable.
Has the community as a whole been adversely impacted by the watershed impairment (life and property ceases to operate in a normal capacity)	X		Impairment increased flooding impacts throughout the community.
Is there a lack or has there been a reduction of public safety due to watershed impairment?	X		Access to residences by emergency personnel (Fire, police, ambulance) would be limited if future flooding occurs due to watershed impairment.

Completed By: DCS II, JDR, KD Date: 10/06/05

Section 2H Group Representation and Disability Information

This section is completed only for the preferred alternative selected.

Group Representation	Number
American Indian/Alaska Native Female Hispanic	0
American Indian/Alaska Native Female Non-Hispanic	0
American Indian/Alaska Native Male Hispanic	0
American Indian/Alaska Native Male Non-Hispanic	5
Asian Female Hispanic	0
Asian Female Non-Hispanic	0
Asian Male Hispanic	0
Asian Male Non-Hispanic	0
Black or African American Female Hispanic	0
Black or African American Female Non-Hispanic	22
Black or African American Male Hispanic	0
Black or African American Male Non-Hispanic	13
Hawaiian Native/Pacific Islander Female Hispanic	0
Hawaiian Native/Pacific Islander Female Non-Hispanic	1
Hawaiian Native/Pacific Islander Male Hispanic	0
Hawaiian Native/Pacific Islander Male Non-Hispanic	0
White Female Hispanic	0
White Female Non-Hispanic	120
White Male Hispanic	0
White Male Non-Hispanic	180
Total Group	341

Census tract(s) Iberia Parish District 13

Completed By: D. Charles Stemmans, Jean Romero, Rachel Manuel, Kris Davis, and Steve Tully

Date: 10/06/05 and 02/25/06

Section 2I. Required consultation or coordination between the lead agency and/or the RFO and another governmental unit including tribes:

Easements, permissions, or permits:

Access permission will be required. Agreement will be between landowners and Iberia Parish Government.

A CWA permit will be required by the sponsor and Water Quality certification possibly need as result of removing root masses and grubbing stumps.

A Coastal Zone Use permit will be required

Mitigation Description:

Avoid impacts to remaining riparian habitat by working from one side of channel and alternating back and forth as needed to avoid impacts. Work should be done from eastern side of channel when possible to use existing cleared right of way. Action will be completed without interruption to reduce impacts to stream fisheries, wildlife, and local residents

Agencies, persons, and references consulted, or to be consulted:

Iberia Parish Govt. POC - Leroy Landry 337-365-8246

Army Corps of Engineers - CWA Permit and water quality certification

Louisiana Department of Natural Resources - CZUP Permit

Louisiana Department of Environmental Quality - Water Quality Certification

Louisiana Department of Fish and Wildlife

DSR NO: 045-05-002 R

Section 3 Engineering Cost Estimate

Completed By: Jean D. Romero (Revised R. Manuel) Date: 10/25/05 (2/18/06)

This section must be completed by each alternative considered (attach additional sheets as necessary).

Proposed Recovery Measure (including mitigation)	Quantity	Units	Unit Cost (\$)	Amount (\$)
Mobilization/Demobilization	1	LS	\$3,500	\$3,500
Channel Obstruction Removal	2,300	LF	\$9.00	\$20,700
Seeding, sprigging, mulching	1	AC	\$200	\$200
Total Installation Cost (Enter in Section 1F)\$				24,400

Alternative Recovery Measure (including mitigation)	Quantity	Units	Unit Cost (\$)	Amount (\$)
Mobilization/Demobilization	1	LS	\$5000	\$5000
Channel Obstruction Removal	2,300	LF	\$9.00	\$20,700
Seeding, sprigging, mulching	3	AC	\$200	\$600
Total Installation Cost \$				26,300

Unit Abbreviations:

AC Acre
CY Cubic Yard
EA Each
HR Hour
LF Linear Feet
LS Lump Sum
SF Square Feet
SY Square Yard
TN Ton
Other (Specify)

Section 4 NRCS EWP Funding Priority

Complete the following section to compute the funding priority for the recovery measures in this application
(see instructions on page 10).

Priority Ranking Criteria	Yes	No		Ranking Number Plus Modifier
1. Is this an exigency situation?		X		
2. Is this a site where there is serious, but not immediate threat to human life?		X		2,c,e
3. Is this a site where buildings, utilities, or other important infrastructure components are threatened?	X			
4. Is this site a funding priority established by the NRCS Chief?		X		
The following are modifiers for the above criteria			Modifier	
a. Will the proposed action or alternatives protect or conserve federally-listed threatened and endangered species or critical habitat?				
b. Will the proposed action or alternatives protect or conserve cultural sites listed on the National Register of Historic Places?				
c. Will the proposed action or alternatives protect or conserve prime or important farmland?			c	
d. Will the proposed action or alternatives protect or conserve existing wetlands?				
e. Will the proposed action or alternatives maintain or improve current water quality conditions?			e	
f. Will the proposed action or alternatives protect or conserve unique habitat, including but not limited to, areas inhabited by State-listed species, fish and wildlife management area, or State identified sensitive habitats?				

Enter priority computation in Section 1A, NRCS Entry, Funding Priority Number.

Remarks:

General water quality will be improved over entire reach

Section 5A Findings

Finding: Indicate the preferred alternative from Section 2 (Enter to Section 1E):

I have considered the effects of the action and the alternatives on the Environmental Economic, Social; the Special Environmental Concerns; and the extraordinary circumstances (40 CFR 1508.27). I find for the reasons stated below, that the preferred alternative:

X Has been sufficiently analyzed in the EWP PEIS (reference all that apply)

Chapter 5.2.2.1.2

Chapter 5.2.2.2.1

Chapter _____

Chapter _____

Chapter _____

____ May require the preparation of an environmental assessment or environmental impact statement.
The action will be referred to the NRCS State Office on this date:

NRCS representative of the DSR team

Title: District Conservationist

Date: 10/06/05

Section 5B Comments:

Section 5C

Sponsor Concurrence: _____

Sponsor Representative

Title: Will Langlinair, Parish Rep.

Date: 12/13/05

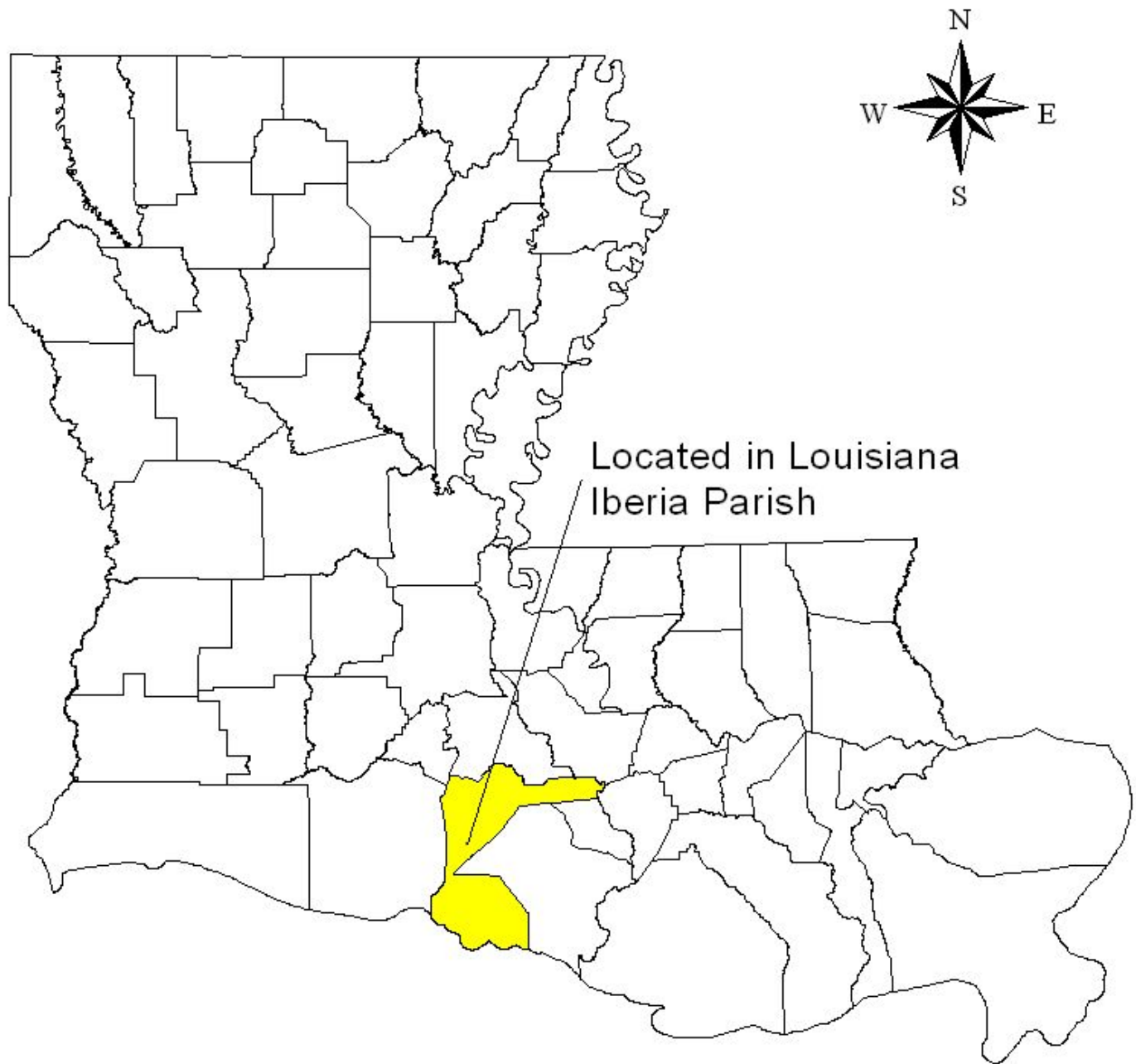
Section 6 Attachments:

- A. Location Map
- B. Site Plan or Sketches
- C. Other (explain)

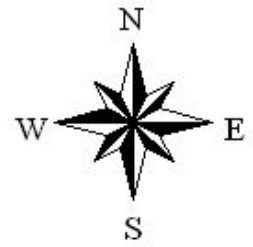
SECTION 6

ATTACHMENTS

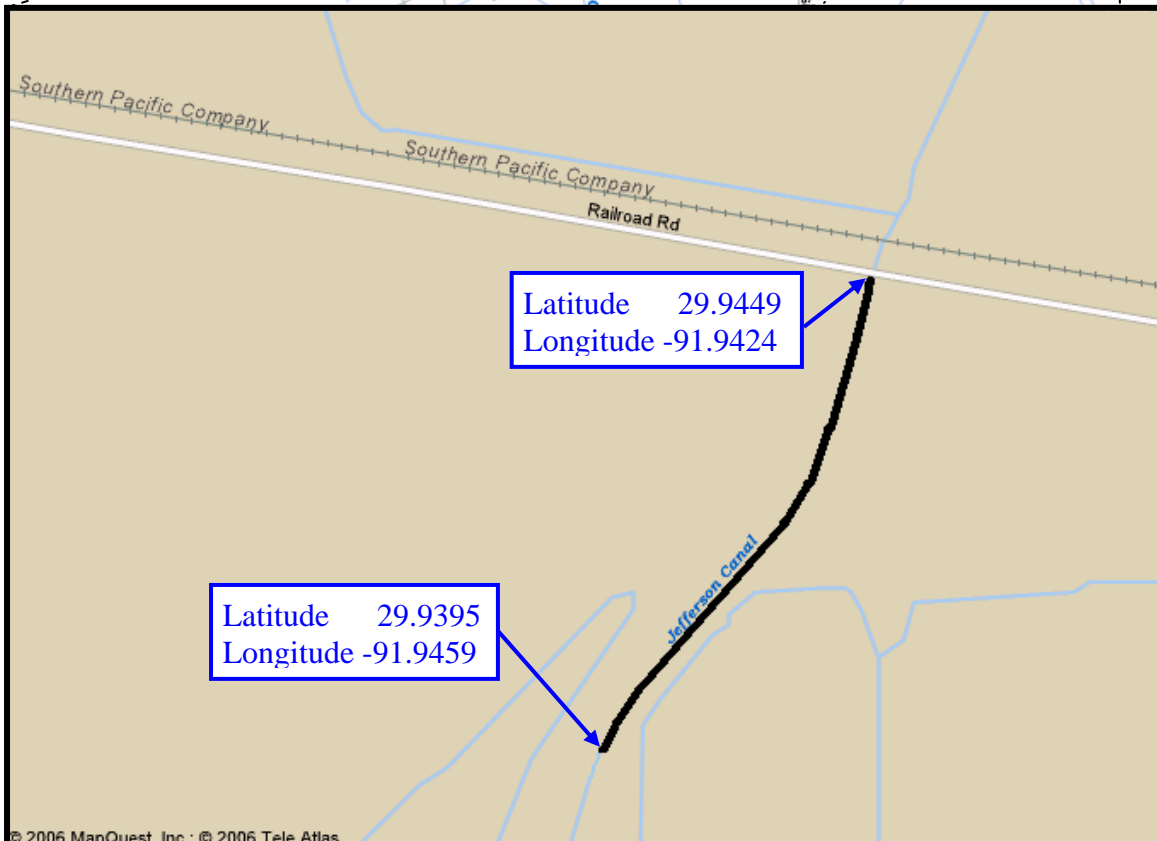
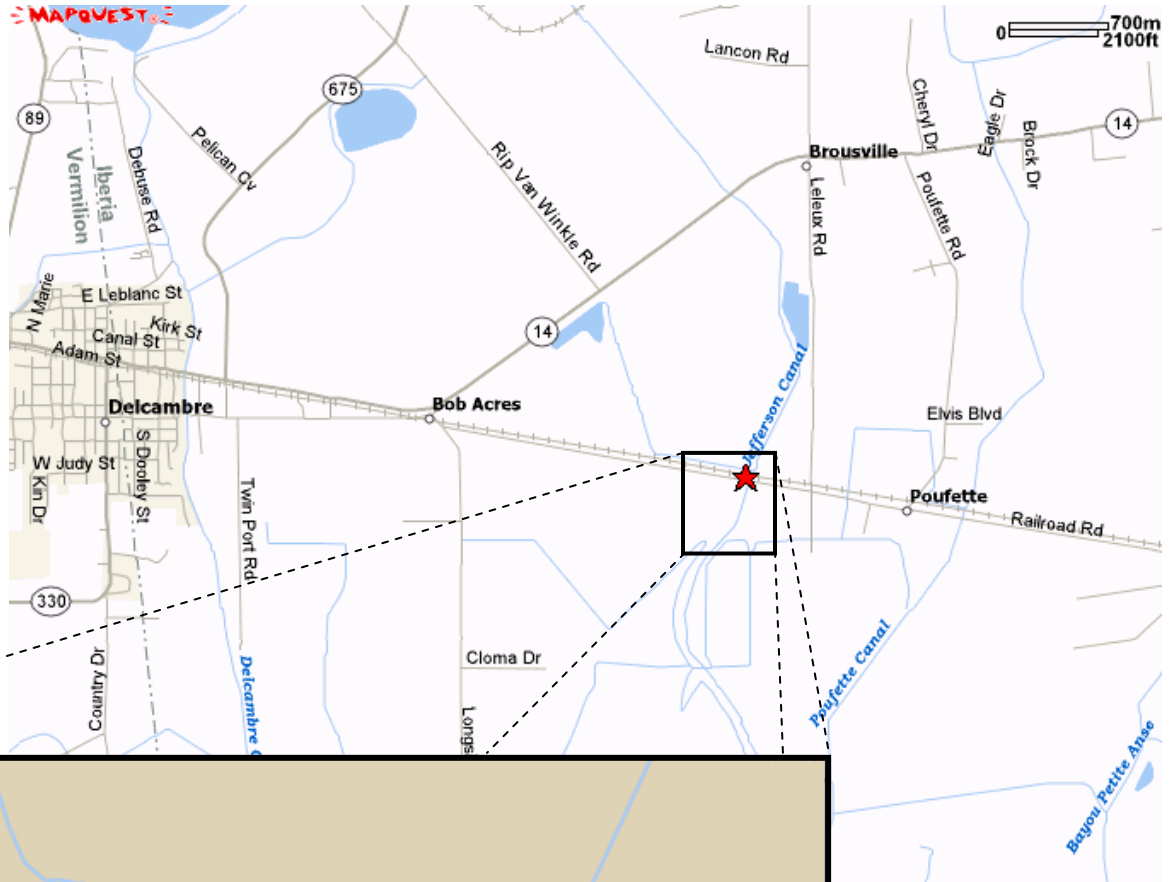
Location Map
Jefferson Canal Debris Removal
DSR 045-05-002
Iberia Parish, Louisiana



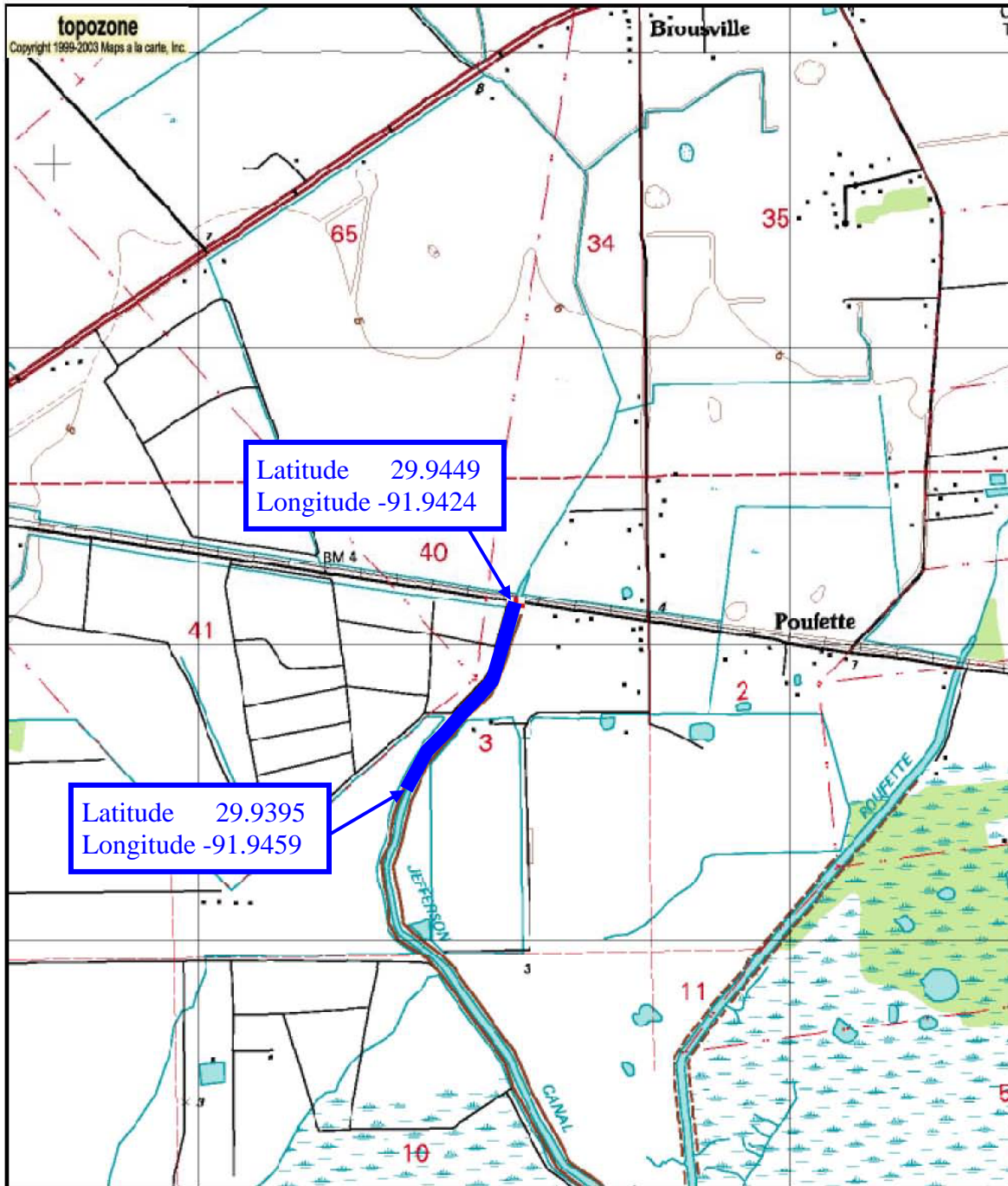
Vicinity Map
Project Area 1
Jefferson Canal Debris Removal
DSR 045-05-002
Iberia Parish, Louisiana



SITE MAP
DSR 045-05-002R
Jefferson Canal
Iberia Parish



TOPO MAP
DSR 045-05-002R
Jefferson Canal
Iberia Parish



Map center is 29.9449°N, 91.9424°W (WGS84/NAD83)

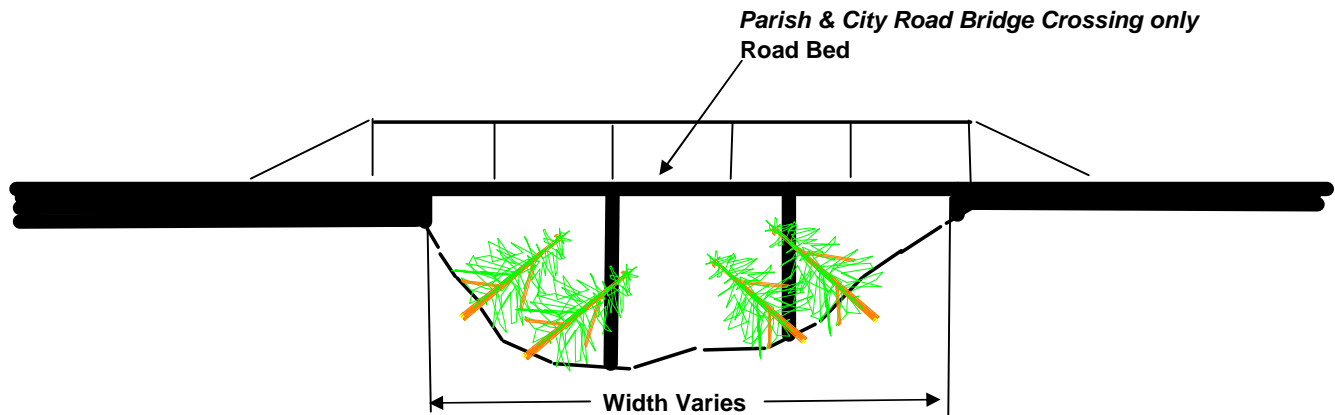
Delcambre quadrangle

Projection is UTM Zone 15 NAD83 Datum

M=1.861

G=0.528

Debris Removal



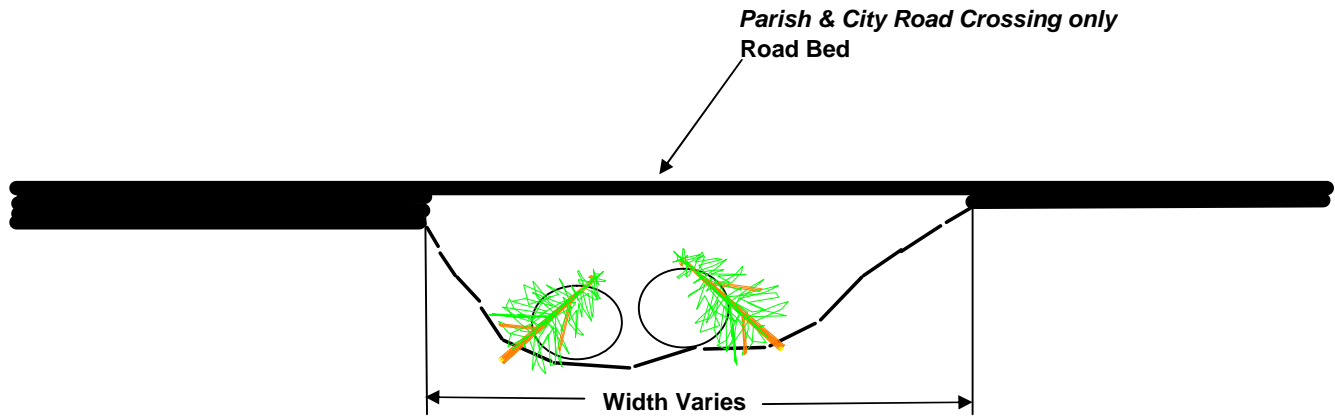
Note: Contract is to remove Debris from upstream and downstream Bridge which includes underside of bridge

Exception: All Crossing which cross State or Federal highways are not included in contract

Typical Road Bridge Crossing Not to Scale

Notice:
48 Hours Before Digging
Call 1-800-272-3020

Debris Removal



Note: Contract is to remove Debris from upstream and downstream Culverts which includes inside of culverts

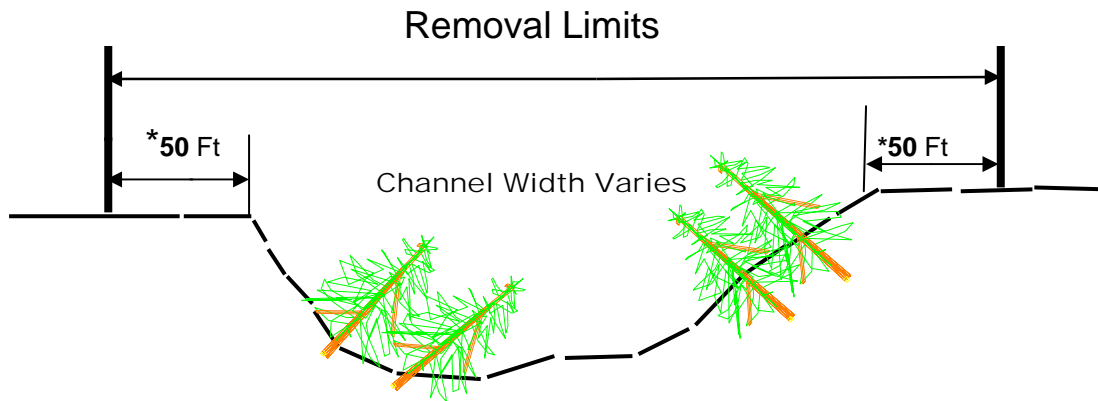
Exception: All Crossing which cross State or Federal highways are not included in contract

Typical Road Culvert type Crossing Not to Scale

Notice:
48 Hours Before Digging
Call 1-800-272-3020

DSR No:045-05-002R
Jefferson Canal
Parish/Sponsor: Iberia Parish Government

Debris Removal



Typical Section Not to Scale

Notice:
48 Hours Before Digging
Call 1-800-272-3020

***Note :** Side of work Varies. Rights of way on both sides; however work from only one side in any reach as concurred in by COTR. Woody debris and combustible vegetative materials shall be disposed of by piling and burning within the work limits. All other debris shall be loaded and hauled to a permitted landfill. No excavation to increase the channel cross section will be allowed. Only storm deposited debris is to be removed from the channel.

Exception it may be possible that trees which were located outside of the the rightaway may have fallen into the right of way, these trees will be remove which may be located outside of the right of way.

DSR No:		045-05-002R	Preferred Measure
Section 5 Engineering Cost Estimate Worksheet			
Parish:	Iberia		
Channel:	Jefferson Canal		
Location:	South of Railroad Road east of the city of Delcambre, Iberia Parish		
Completed By:		Rachel Manuel	Date: 18-Feb-06

Type of Work: Debris Removal

Location of Work:

Township(s)	Range(s)	Section(s)	Quadrangle(s)			
13 South	5 East	3	Delcambre			
Jefferson Canal						
	Latitude	Longitude	Latitude	Longitude	Latitude	Longitude
Downstream Start:	29.94493	-91.94241				
Upstream End:	29.93955	-91.94585				

Estimated Length of Work Segment (ft): 2,300 linear feet

Item No.	Proposed Recovery Measure	Quantity	Units	Unit Cost	Amount
1	Mobilization & Demobilization	1	LS	\$3,500.00	\$3,500
2	Channel Obstruction Removal	2,300	LF	\$9.00	\$20,700
3	Seeding, Sprigging and Mulching	1	AC	\$200.00	\$200
4					\$0
5					\$0

Note: Estimated cost of debris removal includes equipment, labor, hauling, and disposal of material.

Total Estimated Construction Cost \$24,400

Performance Time:

Production Rate	Segment Length	Production Time	Contract Time
240 Ft/Day	2,300 Ft	9.58 Days	12 Days
		Plus	2 Days Move In

Estimated Cost of Equipment with Labor (Per Revised Costs by BAS 2-9-06)

Description of Work:	Medium	Cost per LF
		\$9.00

Estimated Cost of Seeding with Labor

Segment Length	Segment Width	No.of Segment	Acres	Cost per Ac	Total Cost
2,300 Ft.	25 Ft.	1	1	\$200	\$200

Comments:

Selected Alternative involves both sides of channel and 25ft. of top bank and removing only debris obstructing channel section, NOT floodplains. (Work involves removing round hay bails and some marsh material from the canal. Listed work as Medium because it is unknown how difficult it will be to remove material from the channel. It may be possible for material that is to be removed to be burnt and buried/spread in the right of way, and this may be done with the same equipment that pulls the material out of the canal. However the

DSR No:		045-05-002R	Alternative Measure
Section 5 Engineering Cost Estimate Worksheet			
Parish:	Iberia		
Channel:	Jefferson Canal		
Location:	South of Railroad Road east of the city of Delcambre, Iberia Parish		
Completed By:		Rachel Manuel	Date: 18-Feb-06

Type of Work: Debris Removal

Location of Work:

Township(s)	Range(s)	Section(s)	Quadrangle(s)			
13 South	5 East	3	Delcambre			
Jefferson Canal						
	Latitude	Longitude	Latitude	Longitude	Latitude	Longitude
Downstream Start:	29.94493	-91.94241				
Upstream End:	29.93955	-91.94585				

Estimated Length of Work Segment (ft): 2,300 linear feet

Item No.	Proposed Recovery Measure	Quantity	Units	Unit Cost	Amount
1	Mobilization & Demobilization	1	LS	\$5,000.00	\$5,000
2	Channel Obstruction Removal	2,300	LF	\$9.00	\$20,700
3	Seeding, Sprigging and Mulching	3	AC	\$200.00	\$600
4					\$0
5					\$0

Note: Estimated cost of debris removal includes equipment, labor, hauling, and disposal of material.

Total Estimated Construction Cost \$26,300

Performance Time:

Production Rate	Segment Length	Production Time	Contract Time
240 Ft/Day	2,300 Ft	9.58 Days	12 Days
		Plus	2 Days Move In

Estimated Cost of Equipment with Labor (Per Revised Costs by BAS 2-9-06)

Description of Work:	Medium	Cost per LF
		\$9.00

Estimated Cost of Seeding with Labor

Segment Length	Segment Width	No.of Segment	Acres	Cost per Ac	Total Cost
2,300 Ft.	25 Ft.	2	3	\$200	\$600

Comments:

Selected Alternative involves both sides of channel and 25ft. of top bank and removing only debris obstructing channel section, NOT floodplains. (Work involves removing round hay bails and some marsh material from the canal. Listed work as Medium because it is unknown how difficult it will be to remove material from the channel. It may be possible for material that is to be removed to be burnt and buried/spread in the right of way, and this may be done with the same equipment that pulls the material out of the canal. However the

Channel Obstruction Evaluation

SITE INFORMATION			
Parish: <u>Iberia</u>		Site: <u>Jefferson Canal</u>	
City: <u>NEAR Delcambre</u>			
Sponsor: <u>Iberia Parish Government</u>		Reach:	From - <u>Railroad Rd. South</u>
Date: <u>10/6/05</u>			To - <u>2300' south near wooden Bridge</u>
Evaluation Team: <u>Charles Stemmans / Kris Davis / Jean D Romo</u>			

PHOTO NUMBERS AND BRIEF DESCRIPTION		WAYPOINTS	
Photo #	Description	(CIRCLE location and record in Decimal Degrees)	
		Start Work (D/S end)	N <u>29.94493246</u>
		Midstream	W <u>-91.94240766</u>
		End Work (U/S end)	W <u>29.93954541</u>
			<u>-91.94585438</u>

NEARBY AND UPSTREAM STRUCTURES			
(Fill in Numbers, Values, and Size)			
CHURCHES		SCHOOLS	
No. of Churches	<u>0</u>	No. of Schools	<u>0</u>
HOMESITES		PUBLIC FACILITIES	
No. of Homesites	<u>50</u>	No. of Public Facilities	<u>0</u>
Average Value of Homes (X \$1,000)	<u>30,000</u>	BUSINESSES	
	<u>2610,000</u>	No. of Businesses	<u>0</u>
	<u>36,000,000</u>	Size of Businesses	S M L

STREAM CROSSINGS		
(CIRCLE type and write material, size and length)		
TYPE	MATERIAL	NUMBER, SIZE, & LENGTH
Bridge	<u>WOODEN & CONCRETE</u>	<u>1-Wooden 30' x 80'</u> <u>1-CONCRETE 50' x 80'</u>
Culverts		
Other or None		

UTILITIES			
(CHECK the location of the utilities in the area and CIRCLE stream orientation)			
Overhead (Power, Cable, etc.)	<u>U/S</u>	D/S	
Buried (Gas, Sewer, water, etc.)	<u>U/S</u>	D/S	
Elevated Cross channel (Water, Gas, etc.)	<u>U/S</u>	D/S	
Remarks: <u>Contact LA One call for Preline Markings</u>			

CHANNEL CHARACTERISTICS			FLOW	
(CHECK appropriate box for slope and fill in dimensions information)			Is Water Flowing?	
SLOPES		DIMENSIONS		
1.5 : 1 or steeper	Top Width (ft.)	<u>60</u>	<u>YES</u> NO	
1.5 : 1 through 3 : 1 Slope	Bottom Width (ft.)	<u>30</u>	Is debris accumulating? (i.e. Leaves, Trash)	
Flatter than 3 : 1	Depth (ft.)	<u>6</u>	<u>YES</u> NO	

STATEMENT OF PROBLEM							
(CHECK the boxes as needed, and CIRCLE the size of debris that applies)							
DEBRIS	IN CHANNEL	ACROSS CHANNEL	SIZE OF DEBRIS			BLOCKAGE	
			Light	Moderate	Heavy	% of X-Section Obstructed:	
Pine Trees							
Hardwoods						<u>51%-75%</u>	76%-100%
Shrubs							
Other (explain): <u>Debris consist of Rozeau cane, marsh and Bales of HAY</u>							

WORK METHOD AND LOCATION	
(CHECK the box that best applies)	
	Within Channel Floating Equipment (i.e. Barge or Marsh Buggy)
	Within Channel Non - Floating Equipment (Excavator/Track-hoe, Spider, etc)
<u>yes</u>	From Top Banks
ACCESS TO SITE	
(Explain access issues and possible difficulties)	
<u>off Railroad Rd or go to the end of LeLeaux Rd TAKE Right go meet Jefferson Canal</u>	

Jefferson Canal EWP Debris Removal 045-05-002 R



